



TRIBUTARIES®

Bringing it all together

HDMI™

HIGH-DEFINITION MULTIMEDIA INTERFACE

EXTENDER

over One RG6



HX1RG6

Extends HDMI 400ft

www.tributariescable.com

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HX1RG6

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1. Introduction

The Tributaries HX1RG6 HDMI 1.3 Transmitter (Tx) and Receiver (Rx) over one RG6/U coaxial cable is a system designed to extend an HDMI signal over a long distance without loss. By converting HDMI to 3GSDI Tributaries HX1C6 is able to deliver Deep Color (12 bits/color) video and new lossless compressed (Dolby® TrueHD, Dolby® Digital Plus and DTS®-HD Master Audio) digital audio, with a bandwidth up to 225MHz (6.75Gbps).



2. Features

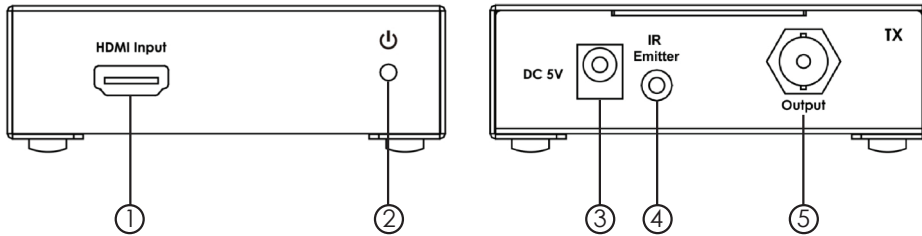
- Extends 1080p/12bit color up to 120 meters (393ft) over single RG6/U coax cable
- Extends 1080i up to 150 meters (492ft) over single RG6/U coax cable
- Compliant with HDMI 1.3c, HDCP 1.2 and DVI 1.1 standards.
- Supports PCM L/R Audio, 5.1/7.1 Channel Surround/Digital Audio/DTS-HD
- Supports equalization and recovery of incoming TMDS data before re-transmitting with optimal quality regardless of the incoming signal quality.
- Supports xvYCC Color Space
- Supports IR signal transmission from remote source to display over same RG6 Coax
- Receiver can be cascaded up to 4 times for multiple display locations

3. Package Contents

- (1) HX1RG6TX HDMI v1.3 Transmitter
- (1) HX1RG6RX HDMI v1.3 Receiver
- (1) IR Blaster
- (1) IR Receiver
- (2) 5V DC Power Supply
- Owner's Manual

4. Operation Controls and Functions

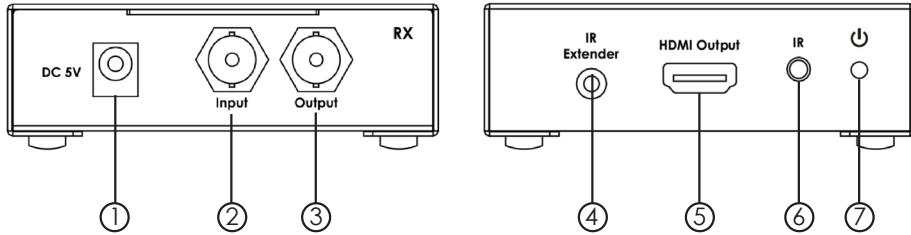
4.1 Transmitter (Tx) Unit



- 1 HDMI INPUT:** Connect to the HDMI output of your source equipments such as a DVD player or Set-top-box with an HDMI cable.
- 2 POWER INDICATOR LIGHT:** illuminates when unit is plugged into 5VDC power supply
- 3 DC 5V:** Connect the 5V DC power supply to the HX1RG6. Then connect the adaptor to an AC wall outlet
- 4 IR EMITTER:** Connect IR emitter cable (included) to this input. Place the eye of the emitter in front of the source equipment.
- 5 OUTPUT:** Connect the output of the Transmitter to the INPUT of the Receiver using a 75 ohm RG6/U cable that has been terminated with 75 ohm BNC male connectors.

Note: Do not use BNC connectors that require screws or clamps to secure the connector to the cable. For best results only use BNC plugs that are secured using a Linear Compression Crimping Tool.

4.2 Receiver (Rx) Unit



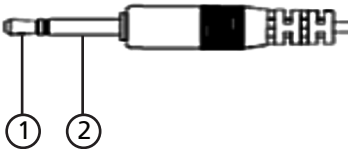
- 1 **DC 5V:** Connect the 5V DC power supply to the HX1RG6. Then connect the adaptor to an AC wall outlet
- 2 **INPUT:** Connect the OUTPUT of the transmitter to the INPUT of the receiver using an RG6 cable terminated with 75 ohm BNC connectors.

Note: Do not use BNC connectors that require screws or clamps to secure the connector to the cable. For best results only use BNC plugs that are secured using a Linear Compression Crimping Tool or soldering.

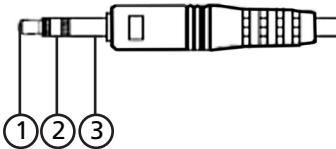
- 3 **OUTPUT:** Connect the output to a 2nd HX1RG6-RX Receiver for cascading up to 4 times to multiple displays
- 4 **IR EXTENDER:** Connect an IR receiver cable (included) to this input. Place the eye in front of the display, then use the existing remote to control the source equipment.
- 5 **HDMI OUTPUT:** Connect an HDMI cable to the display
- 6 **IR:** To use this built-in IR receiver, simply place the receiver in front of the display and use the existing remote to control the source equipment.
- 7 **Power LED:** This LED indicator will activate once the included 5V DC power adapter has been properly connected between the Receiver unit and an open wall power socket.

5. IR Termination

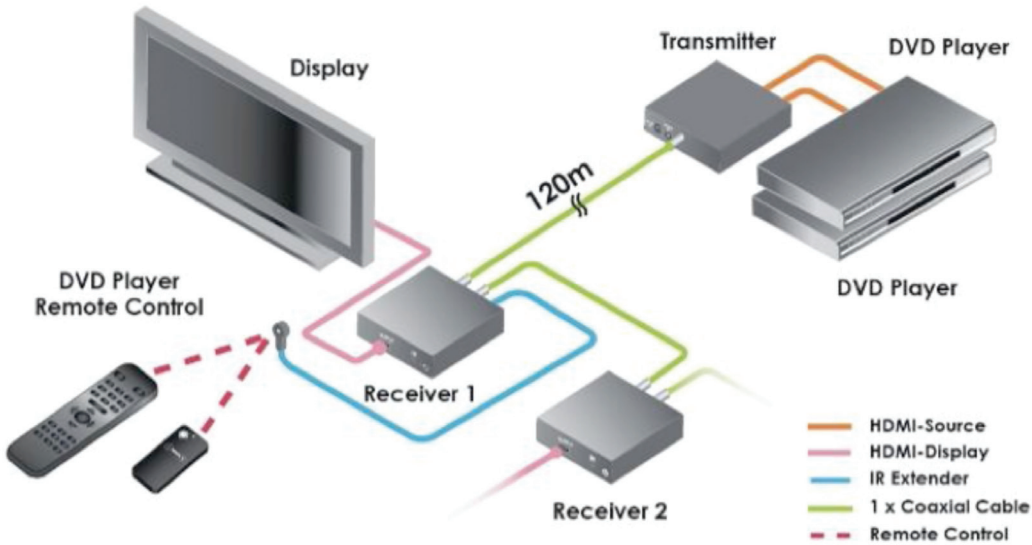
IR Emitter	
Pin 1	3.3V Power
Pin 2	IR Signal



IR Receiver	
Pin 1	3.3V Power
Pin 2	IR Signal
Pin 3	Ground



6. Connection and Installation



7. Specifications

Frequency Bandwidth:	2.25Gbps / 6.75Gbps (single link)
Transmitter I/O Connectors:	(1) HDMI female connector, (1) BNC female connector, (1) 3.5mm mono female mini connector
Receiver O/I Connectors:	(1) HDMI Female connector, (2) BNC female connectors, (1) 3.5mm stereo female mini connector
Power Supply:	5V/ 1A DC (US/CA/EU standards; UL /FCC/ CE / CSA/RoHS certified)
Dimensions (Tx & Rx):	4 3/4" (121.7mm) W x 2 7/8" (72mm) D x 1 1/8" (30mm)H
Weight (Tx & Rx):	3.2oz (90g)
Chassis Material:	Aluminum
Power Consumption TX:	5w Max ; RX: 5w Max
Operating Temperature:	32°F ~ 104°F / 0°C ~ 40°C
Storage Temperature:	-4°F ~ 140°F / -20°C ~ 60°C
Storage Humidity:	10% to 85% (Non-condensing)

HDMI Electronics 2 Year Warranty

This Warranty only applies to products purchased and used in the United States of America. Products purchased or used outside the United States are subject to such warranties, if any, as are provided by the Tributaries distributor in the respective countries.

Scope and Duration of Warranty

Subject to the terms and conditions stated below, Gordon J. Gow Technologies, Inc., ("Gow") warrants that this Product shall be free from defects in workmanship or materials for a term of two (2) years from the date when it was purchased from an Authorized Gow Dealer.

What Gow Will Do Under the Warranty

In the event of any defect covered by this warranty, Gow shall without charge provide all parts, materials, and labor necessary to restore the Product to its original specifications, and shall return the Product to its owner at Gow's expense. In the alternative, Gow may at its sole option either replace the Product without charge, or it replacement is not commercially practicable or repair or replacement cannot be accomplished within a reasonable time, Gow may refund the purchase price of the Product, subject where appropriate to reasonable depreciation for use in accordance with applicable laws, in full satisfaction of its warranty obligations. Gow will undertake to complete the repair and return of the Product as soon as circumstances permits, unless prevented by causes beyond its reasonable control.

LIMITATIONS ON GOW'S OBLIGATIONS UNDER THE WARRANTY

GOW'S SOLE OBLIGATION UNDER THIS WARRANTY SHALL BE TO REPAIR OR REPLACE THE PRODUCT, OR AT ITS OPTION REFUND THE PURCHASE PRICE, AS PROVIDED FOR HEREIN ABOVE. GOW DOES NOT WARRANT AGAINST, NOR SHALL IT BE LIABLE FOR, ANY OF THE FOLLOWING: REMOVAL OR INSTALLATION CHARGES; SHIPPING EXPENSES TO GOW OR ITS AUTHORIZED SERVICE FACILITY; PROPERTY DAMAGE OF ANY KIND; OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES OR LOSSES OF ANY KIND.

Note: Some states do not allow exclusion or limitation of consequential damages, so the foregoing exclusion may not apply.

Exclusions:

Parts and Occurrences That Are Not Covered by the Warranty

This Warranty does not cover any of the following: (A) glass panels, cabinetry, trim, or any other appearance items (except) where they are defective at the time of original sale and the Product is delivered for repair within the first thirty (30) days thereafter; (B) batteries, or failure of or damaged to the Product caused by batteries; (C) failures arising from catastrophe, misuse, neglect, or failure to properly connect an operate the Product in accordance with the accompanying instructions; (D) failures arising from improper installations of the Product or incompatibility of other components in the system of which the Product is a part; (E) failures of any kind in Products (I) which have been purchased from other than an Authorized Gow Dealer, or (II) which evidence any tampering, alteration, or attempted servicing by anyone other than Gow or an Authorized Gow Service Facility, or (III) which are not delivered or shipped to Gow or an Authorized Service Facility within the two (2) year Warranty term; and Gow shall have no liability or obligation of any kind with respect to any of the foregoing types of failures.

What the Owner Must Do to Obtain Service Under This Warranty

To obtain service under this warranty, the owner must at the owner's expense (I) arrange for any necessary de-installation of the Product, and (II) return the Product to the Authorized Gow Dealer from which it was purchased. If return to the Authorized Gow Dealer is impracticable, the owner must deliver or ship the Product, properly packaged, prepaid, and insured, to Gow at the address below, or to an Authorized Gow Service Facility. In addition, the owner must provide evidence that the Product is a time of delivery with the scope of this Warranty, by either having completed and submitted to Gow on a timely basis the Warranty Registration Card, if one is included with the Product, or by including the original or a legible copy of the dated sales receipt with the Product when submitted for repair. All Products must also be accompanied by the owner's name, address, and telephone number.

What the Owner Must Pay For

As noted above, the owner must arrange and pay any expense for removing the Product from its installation and delivering it to Gow or the Authorized Gow Service Facility. Upon return of the Product to the owner following repair, it shall be the owner's responsibility to arrange and pay for any reinstallation which may be required. In addition, it shall be the owner's obligation to pay for any repairs made to Products for which the owner has neither completed and submitted (where one is included) the warranty Registration Card at the time of purchase nor include a legible copy or the original of the dated sales receipt with the Product when delivered for service, or which are otherwise subject to the exclusions noted above, at Gow's or its Authorized Service Facility's then current repair rates.

How to Learn Where the Nearest Authorized Gow Service Facility is, or Obtain Answers to Other Questions Concerning This Warranty

In order to learn the name and address of the nearest Authorized Gow Service Facility, obtain instructions for shipment of a covered Product to Gow, or obtain the answers to any other questions you may have concerning this Warranty, you may telephone Gow between the hours of 9:00a.m. and 5:00p.m. Eastern Time, Monday through Friday, at 1.888.554.2514, or write to Service Department, Gordon J. Gow Technologies, Inc. 6448 Pinecastle Blvd; Suite 101, Orlando, FL 32809, (Fax 1.800.553.1366).

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



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Gordon J. Gow Technologies, Inc.
Orlando, FL 32809
www.tributariescable.com